

ABSTRACT

A composite metal polybasic salt containing a trivalent metal, zinc metal and a divalent metal as metal components and having a novel crystal structure, and a method of preparing the same. The invention further deals with a composite metal polybasic salt which has anion-exchanging property, which by itself is useful as an anion-exchanger, capable of introducing anions suited for the use upon anion-exchange, and finds a wide range of applications, and a method of preparing the same. The composite metal polybasic salt has a particular chemical composition and X-ray diffraction peaks, exhibiting peaks at $2\theta = 2$ to 15° , $2\theta = 19.5$ to 24° and $2\theta = 33$ to 50° , and a single peak at $2\theta = 60$ to 64° in the X-ray diffraction ($\text{Cu-}\alpha$).

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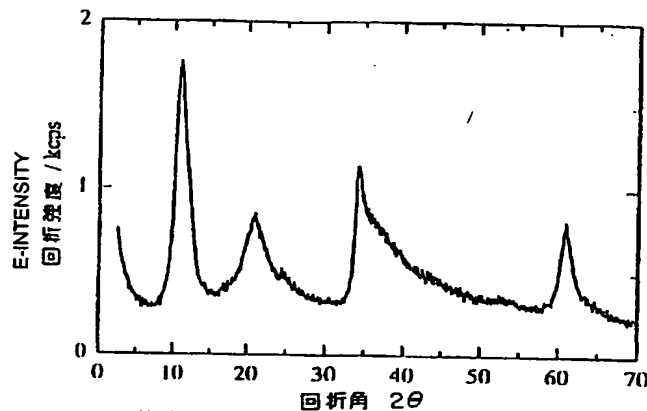
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(54) Title: ZINC-MODIFIED COMPOSITE POLYBASIC SALT, PROCESS FOR PRODUCING THE SAME, AND USE

(54) 発明の名称: 亜鉛変性複合多塩基性塩、その製法及び用途



複合金属多塩基性塩PBS (実施例3) のX線回折像
X-RAY DIFFRACTION IMAGE FOR COMPOSITE-METAL POLYBASIC SALT,
PBS (EXAMPLE 3)

(57) Abstract: A composite-metal polybasic salt which contains, as metallic ingredients, a trivalent metal, zinc metal, and a divalent metal and has a novel crystalline structure. It has anion-exchanging properties and is useful by itself as an anion exchanger, and an anion suitable for the intended application can be incorporated thereinto through anion exchange. It is usable in a wide range of applications. The composite-metal polybasic salt is characterized by having a chemical composition represented by $(M2)_a(Zn)_b(M3)_x(OH)_y(A)_z \cdot nH_2O$ (wherein M2 is a divalent metal; M3 is a trivalent metal; A is an anion; and a, b, x, y, z, and n each is a number showing the proportion) and having a diffraction peak at each 2θ 's of 2 to 15°, 19.5 to 24°, and 33 to 50° and a single peak at a 2θ of 60 to 64° in X-ray diffractometry (Cu- α).

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WO 01/04054 A1